

EXHIBIT G

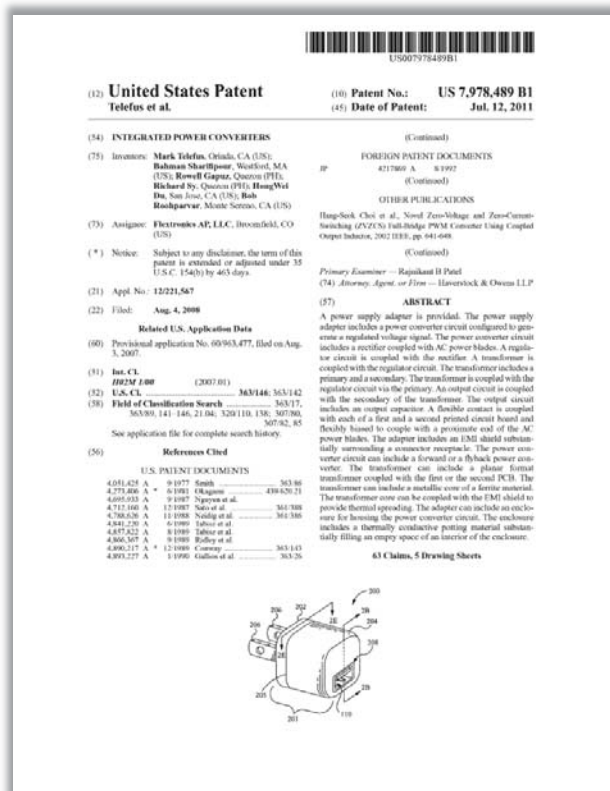
Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12, EP-TA800, EP-TA845**Title: INTEGRATED POWER CONVERTERS****Priority Date: Aug. 03, 2007****Filed Date: Aug. 04, 2008****Issued Date: Jul. 12, 2011****Expiration Date: Nov, 10, 2029****Inventors: Mark Telefus; Bahman Sharifipour; Rowell Gapuz; Richard Sy; HongWei Du; Bob Roohparvar****Claims: 43, 53, 54, 60**

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

Claim 43

A **(PC) power supply adapter** comprising:

a **(SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit** including,

a **(RECT) rectifier coupled with (ACB) ac power blades;**

a **(REG) regulator circuit coupled with the (RECT) rectifier;**

a **(XFM) transformer coupled with the (REG) regulator circuit,**

the **(XFM) transformer including a (XP) primary and a (XS) secondary,**

the **(XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and**

a **(FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and (FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.**

Claim 53

The adapter of claim 43, wherein the **(FLXC) flexible contact comprises a metallic conductor.**

Claim 54

The adapter of claim 43, wherein the **(FLXC) flexible contact is configured to electrically couple an AC power source** from the **(ACB) ac power blades** to the **(SPS) power converter circuit.**

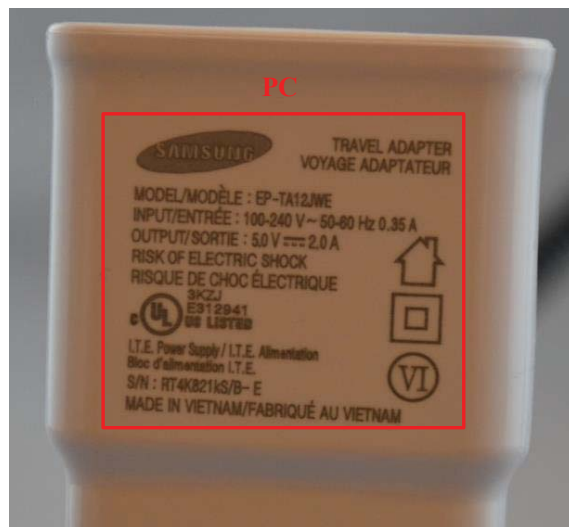
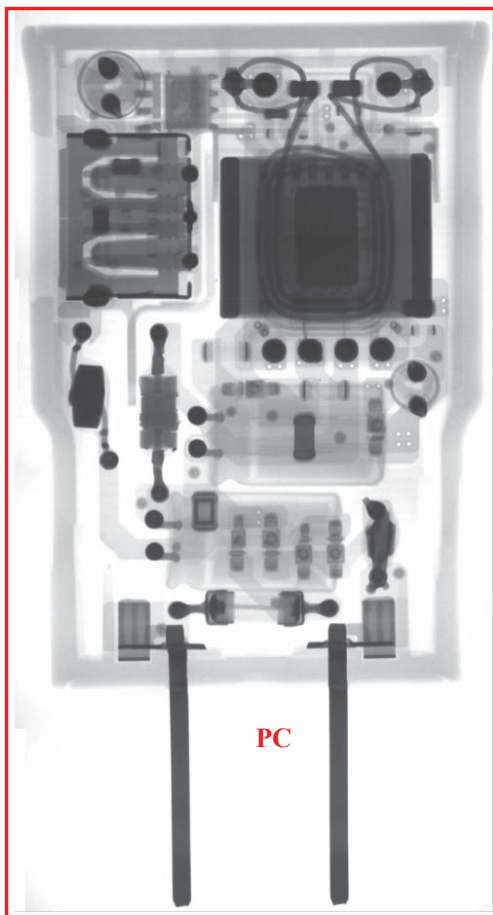
Claim 60

The adapter of claim 43, wherein the **(USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.**

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

A (PC) power supply adapter comprising:

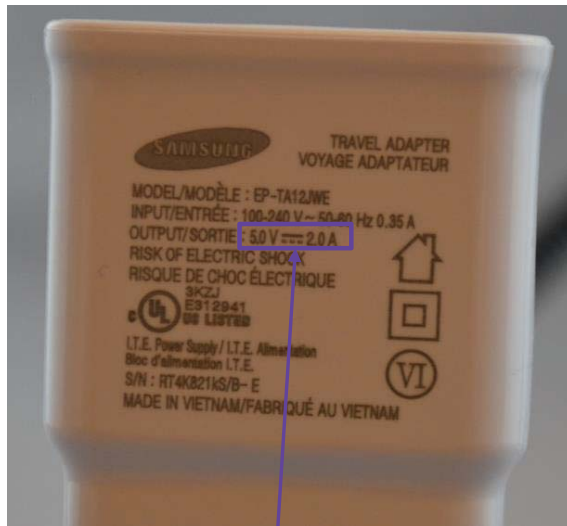
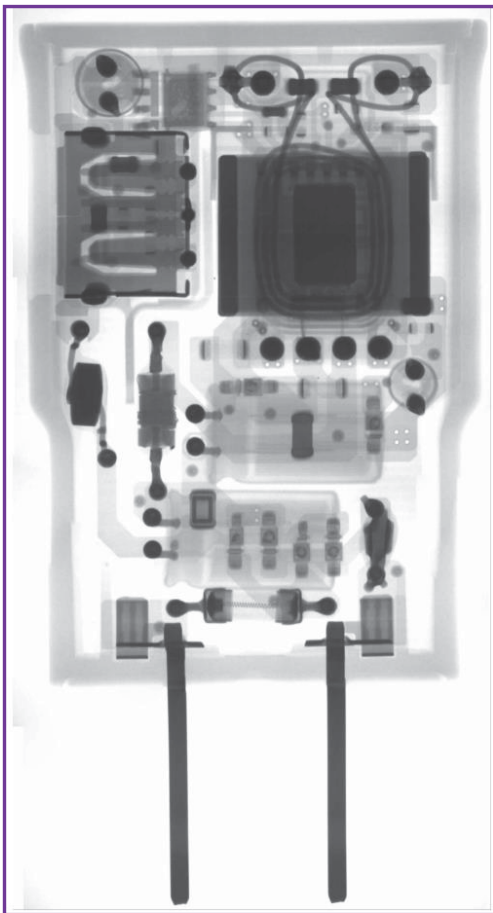


Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

SPS

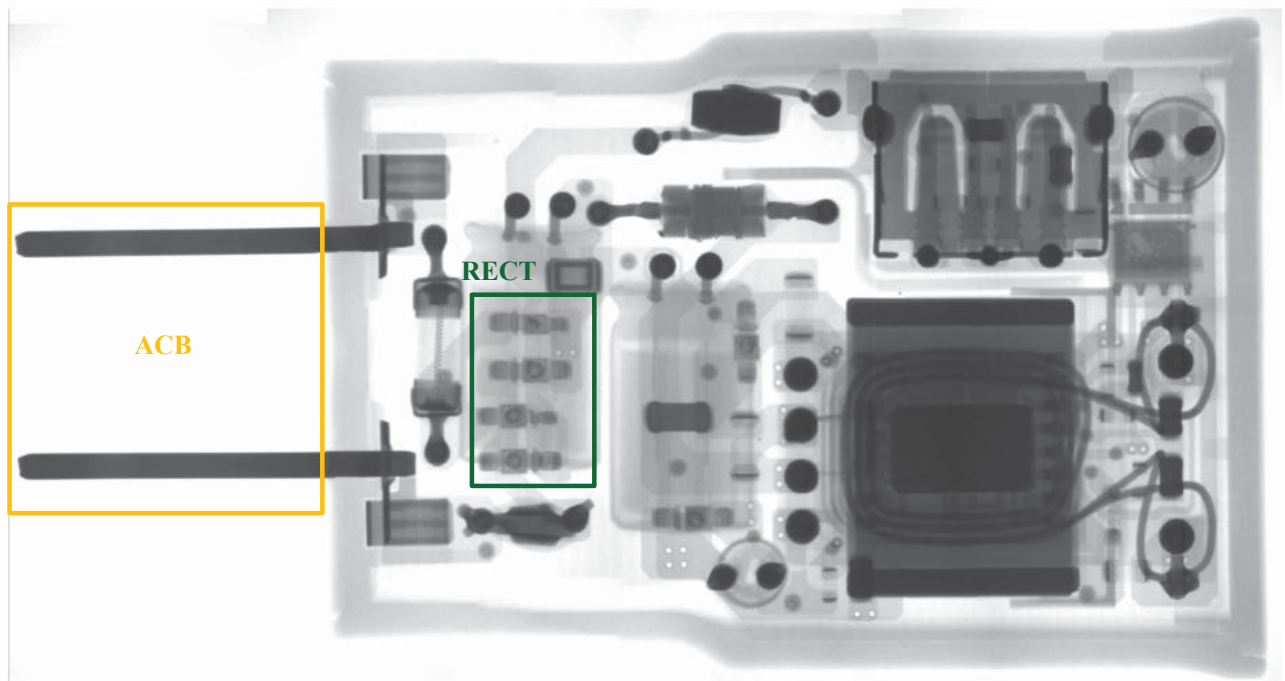


Regulated
Voltage
Signal

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

a (RECT) rectifier coupled with (ACB) ac power blades;

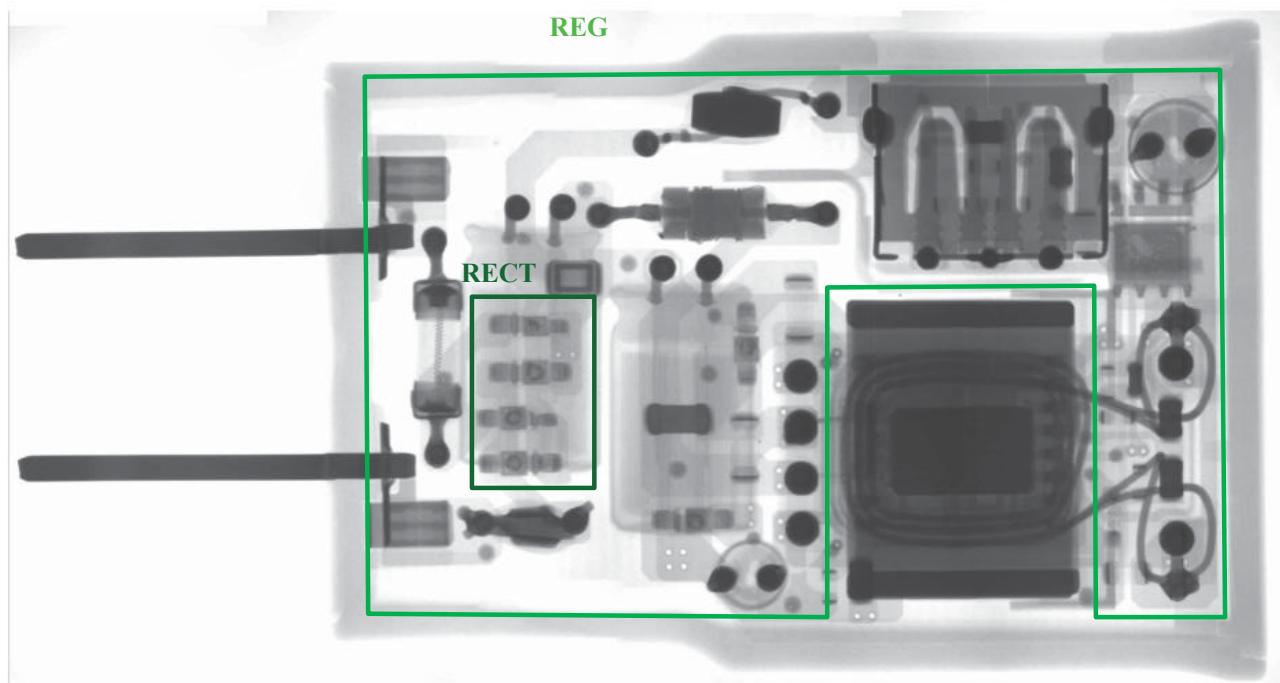


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

a (REG) regulator circuit coupled with the (RECT) rectifier;

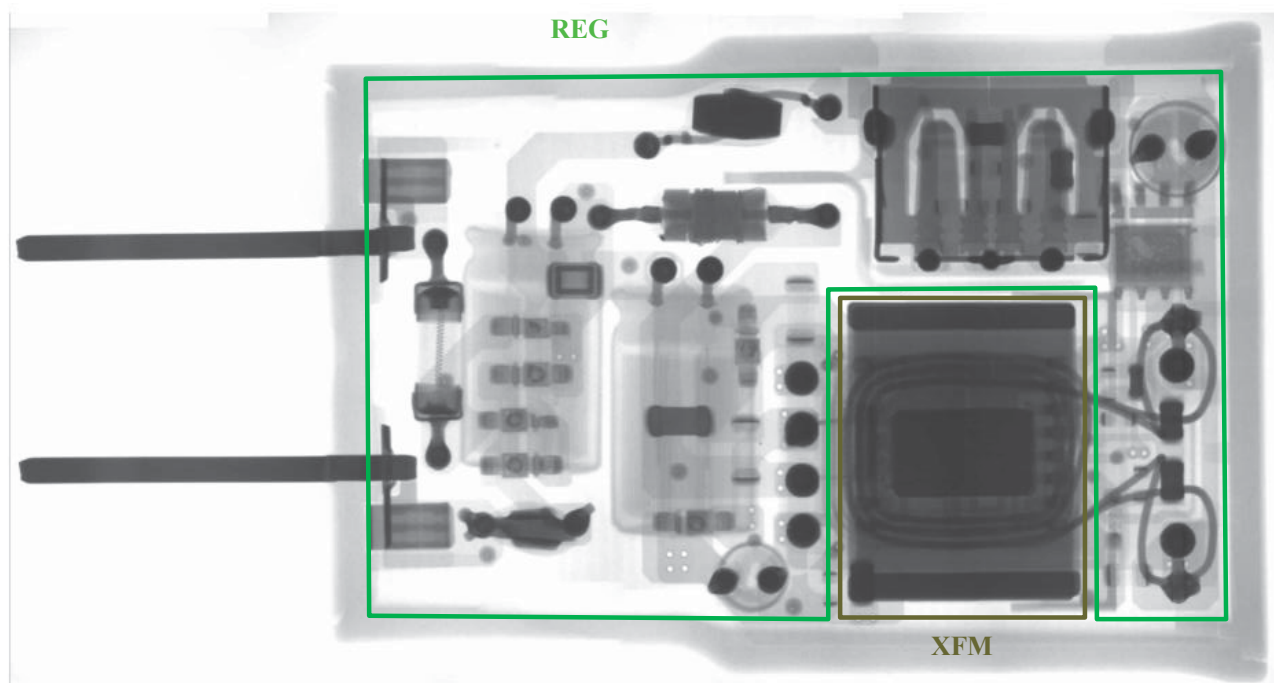


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

a (XFM) transformer coupled with the (REG) regulator circuit,

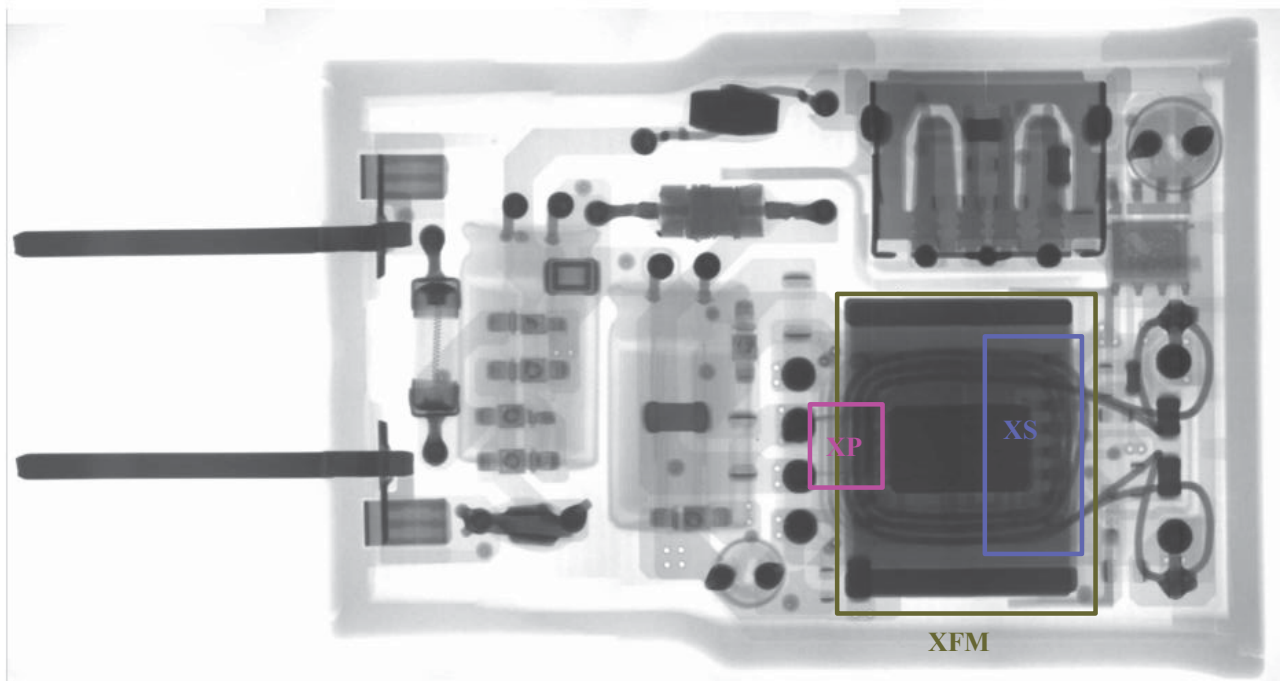


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

the (XFM) transformer including a (XP) primary and a (XS) secondary,

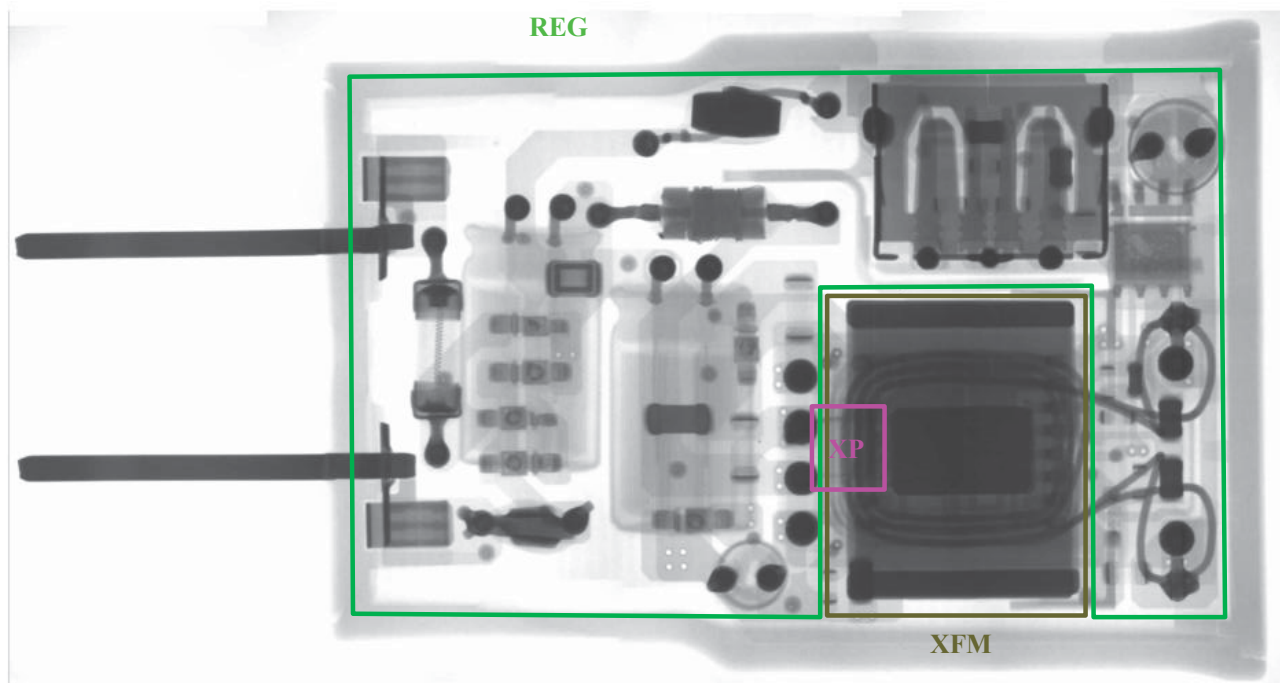


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and

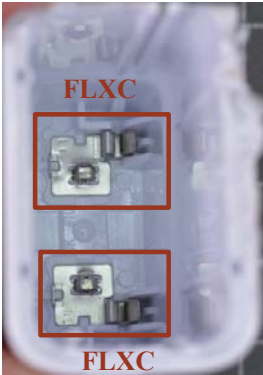
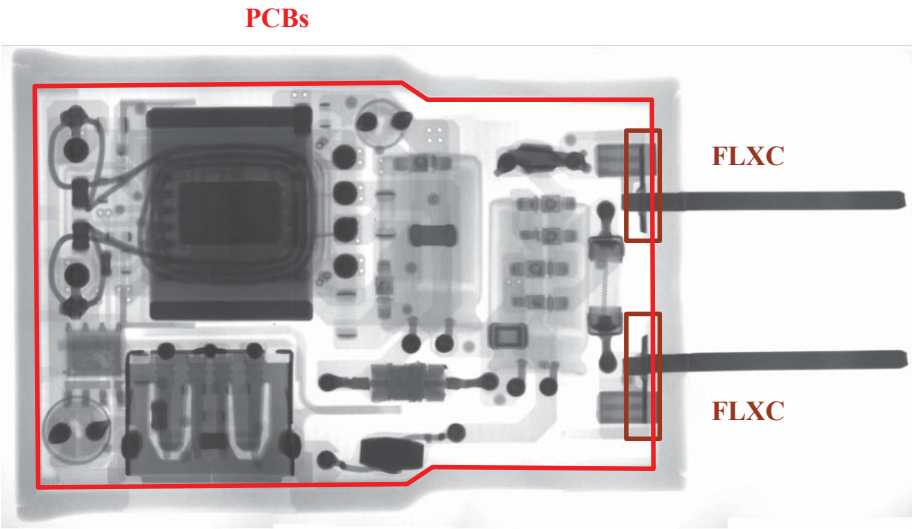


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and

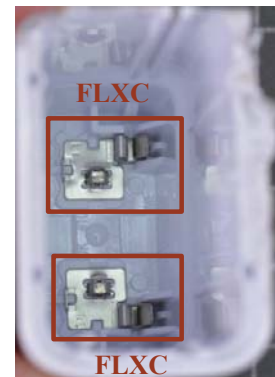
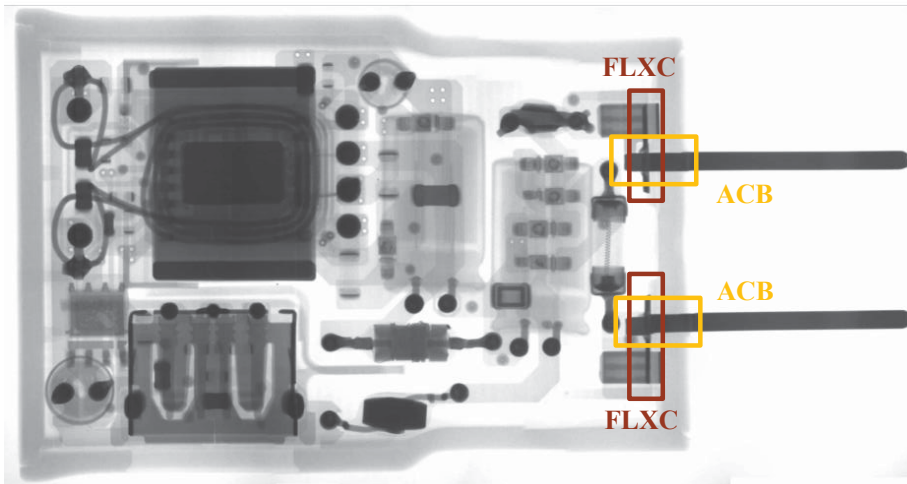


Potentially, literally and equivalently present.

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

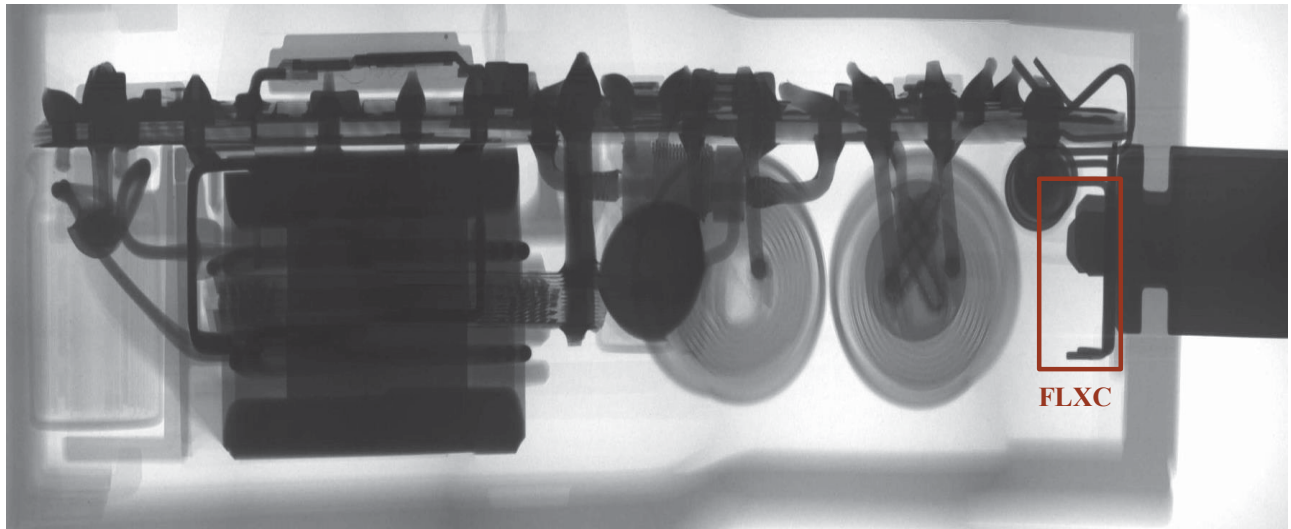
(FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

(FLXC) flexibly biased to couple with a proximate end of the ac power blades.

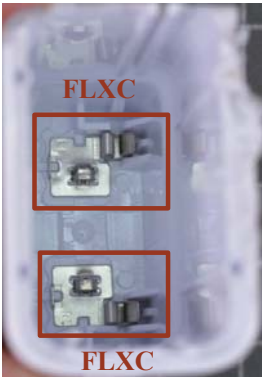


Preliminary – Subject to Change

Claim 53

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

The adapter of claim 43, wherein the **(FLXC) flexible contact comprises a metallic conductor.**

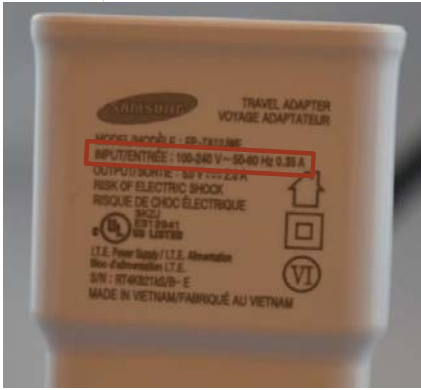
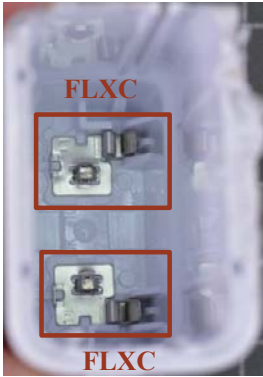
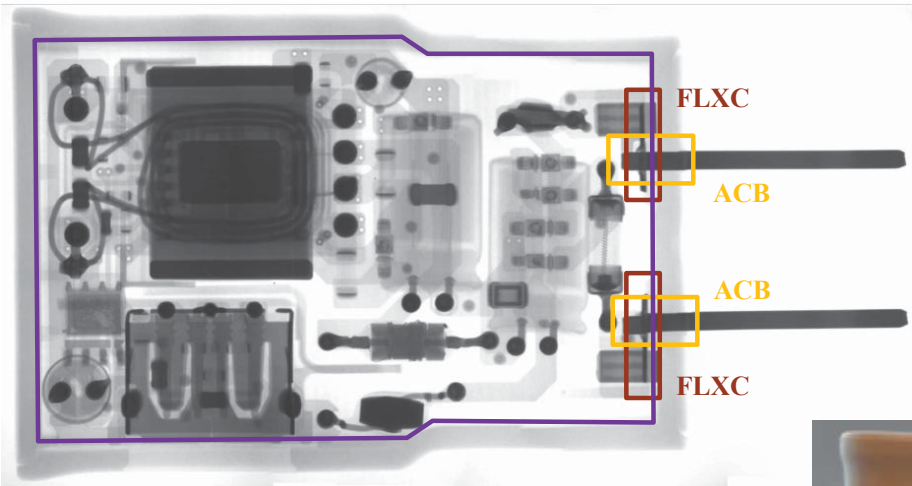


Claim 54

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

The adapter of claim 43, wherein the **(FLXC) flexible contact is configured to electrically couple an AC power source** from the **(ACB) ac power blades** to the **(SPS) power converter circuit**.

SPS



Claim 60

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA12

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

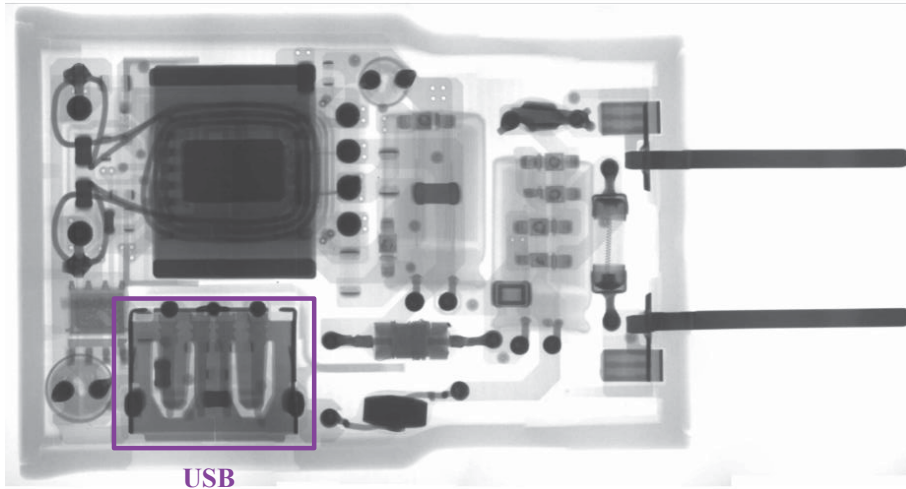


Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

Claim 43

A **(CON) power supply adapter** comprising:

a **(SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit** including,

a **(RECT) rectifier coupled with (ACB) ac power blades;**

a **(REG) regulator circuit coupled with the (RECT) rectifier;**

a **(XFM) transformer coupled with the (REG) regulator circuit,**

the **(XFM) transformer including a (XP) primary and a (XS) secondary,**

the **(XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and**

a **(FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and (FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.**

Claim 53

The adapter of claim 43, wherein the **(FLXC) flexible contact comprises a metallic conductor.**

Claim 54

The adapter of claim 43, wherein the **(FLXC) flexible contact is configured to electrically couple an AC power source** from the **(ACB) ac power blades** to the **(SPS) power converter circuit.**

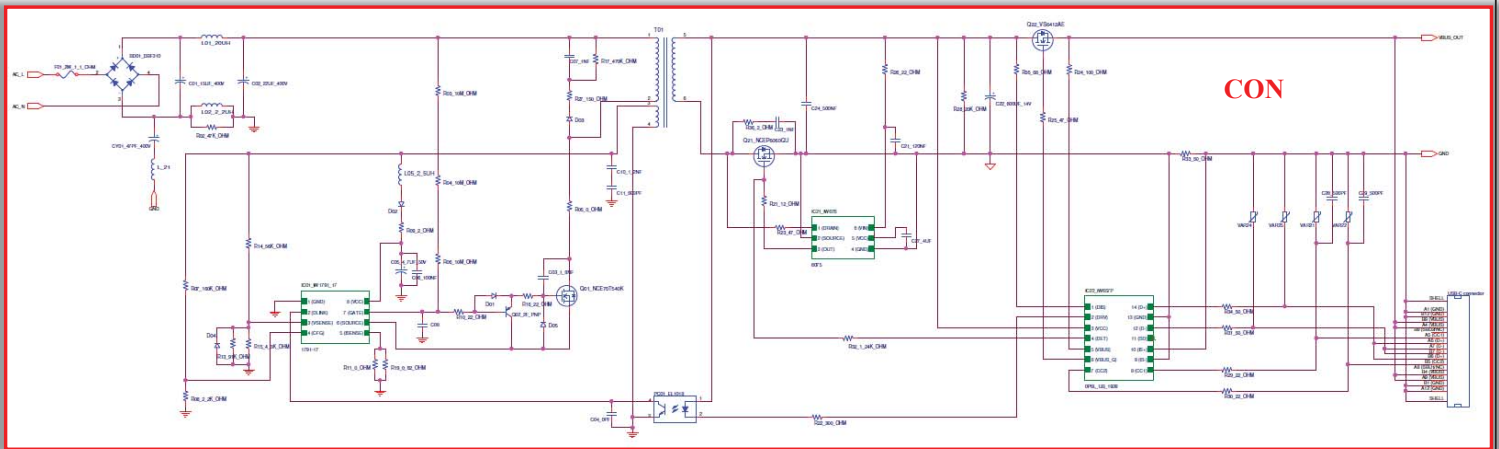
Claim 60

The adapter of claim 43, wherein the **(USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.**

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

A (CON) power supply adapter comprising:



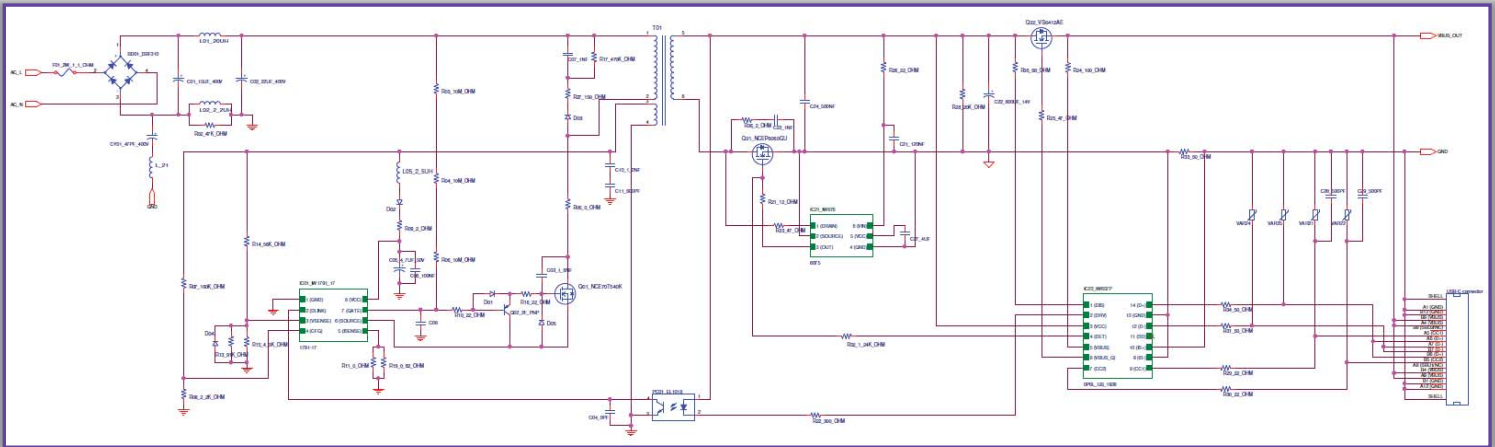
Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

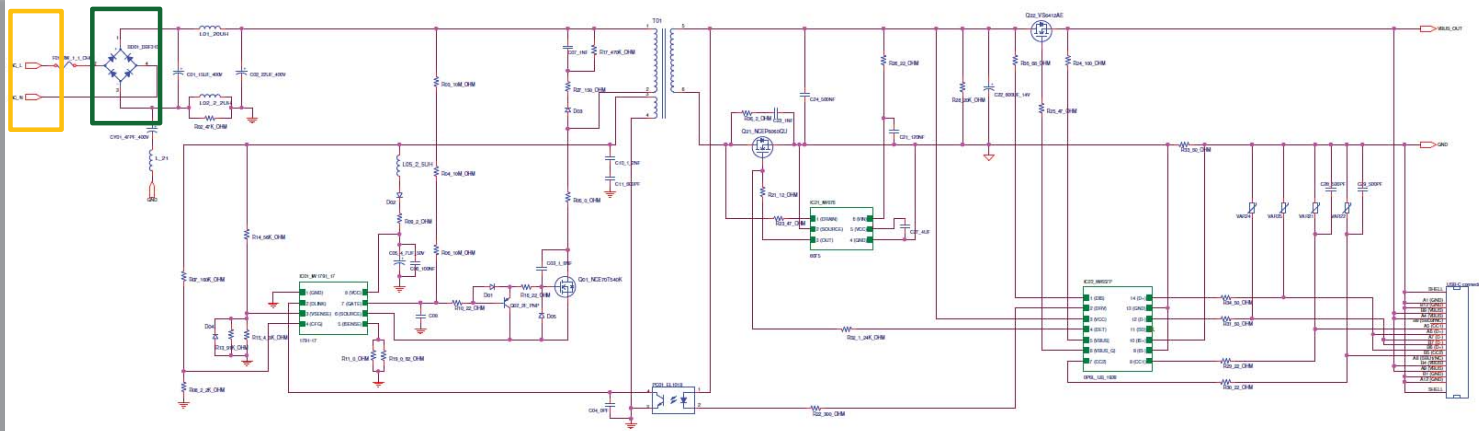
SPS



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

a (RECT) rectifier coupled with (ACB) ac power blades;

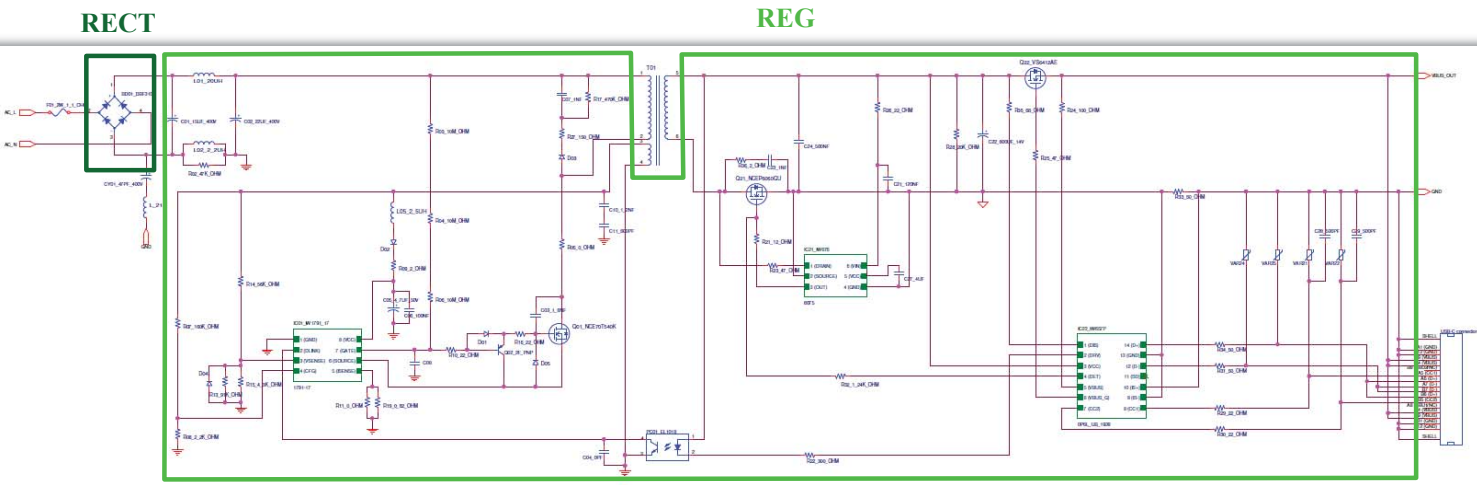


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

a (REG) regulator circuit coupled with the (RECT) rectifier;

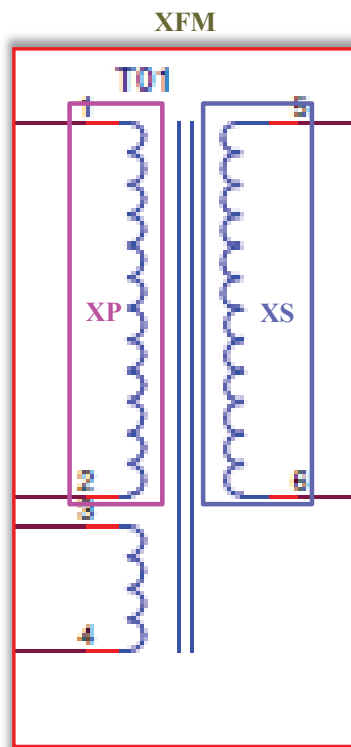


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

the (XFM) transformer including a (XP) primary and a (XS) secondary,



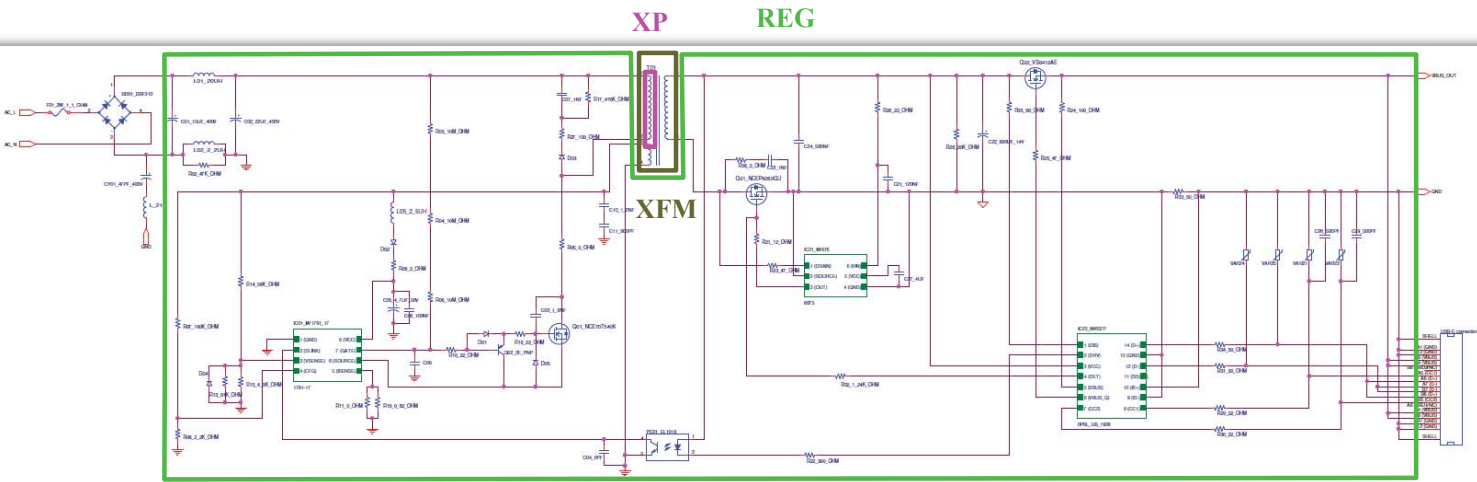
Preliminary – Subject to Change

22

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

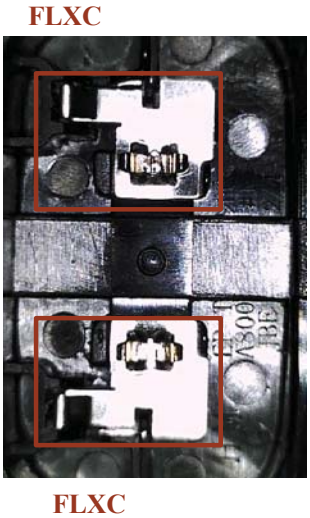
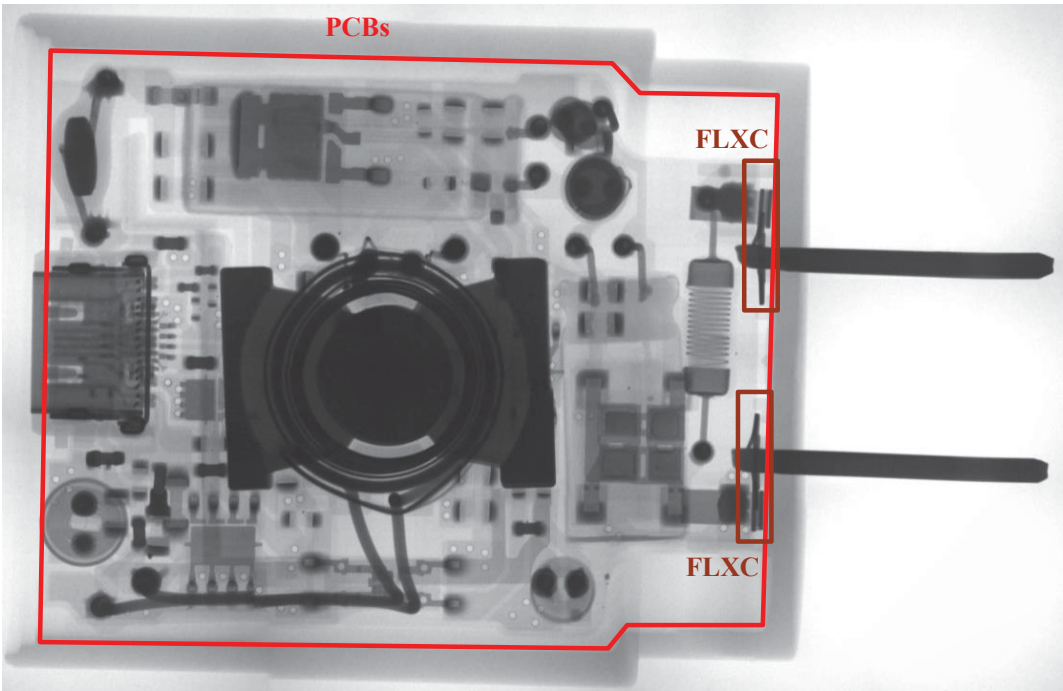
the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and

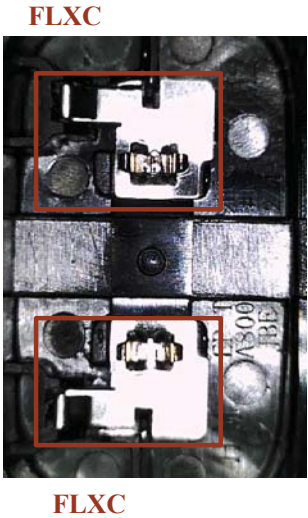
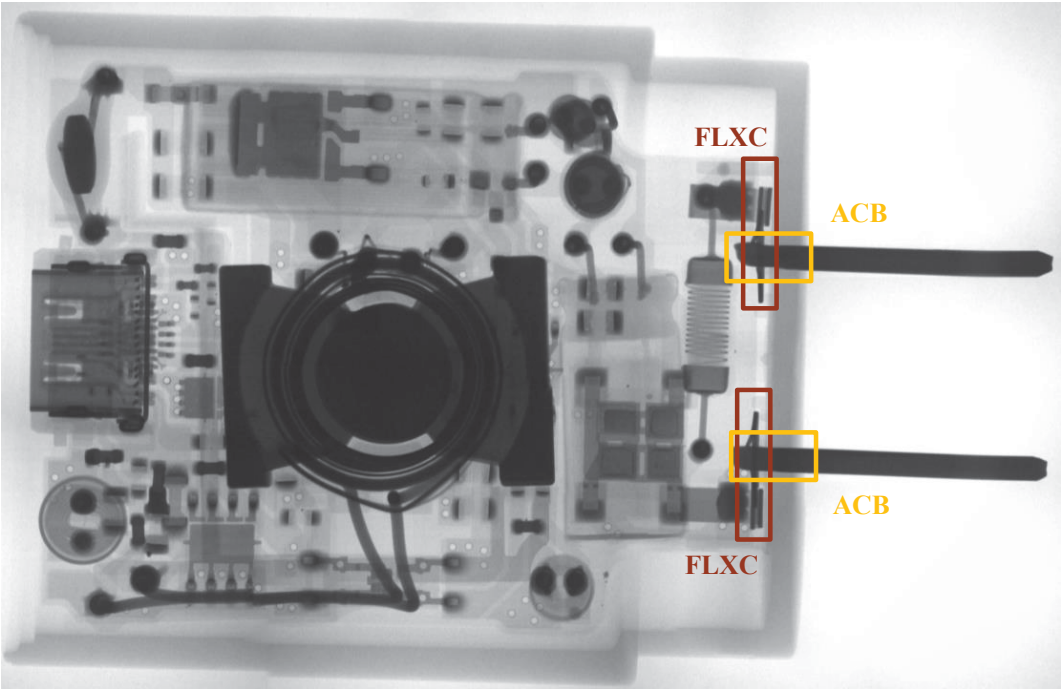


Potentially, literally and equivalently present.

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

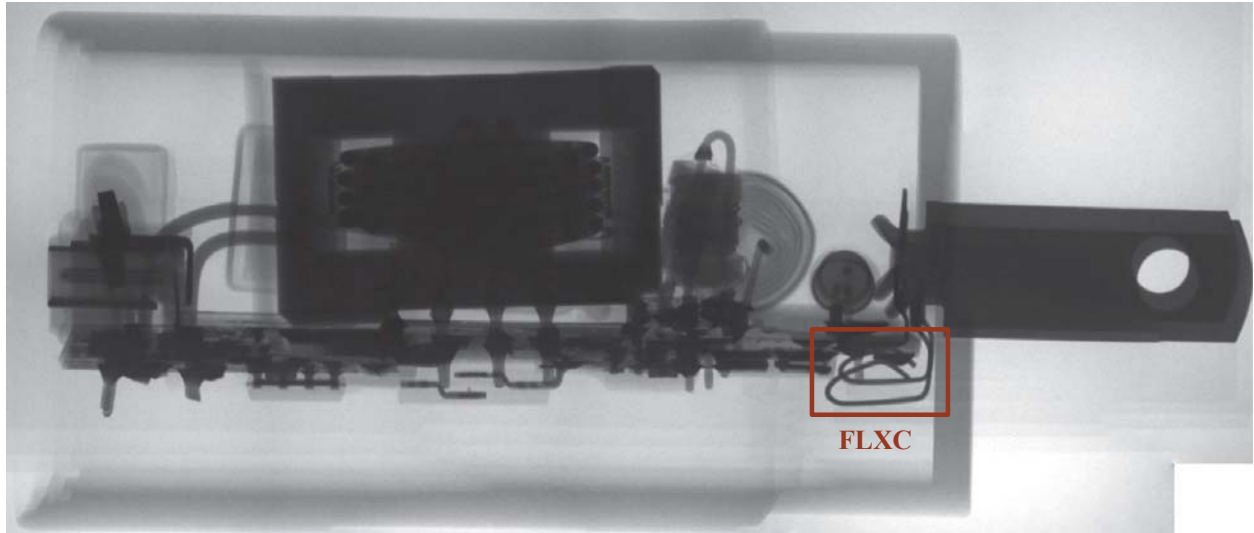
(FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

(FLXC) flexibly biased to couple with a proximate end of the ac power blades.



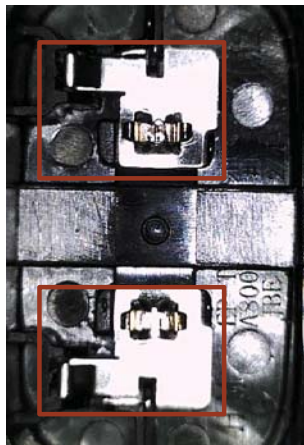
Preliminary – Subject to Change

Claim 53

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

The adapter of claim 43, wherein the **(FLXC) flexible contact comprises a metallic conductor.**

FLXC

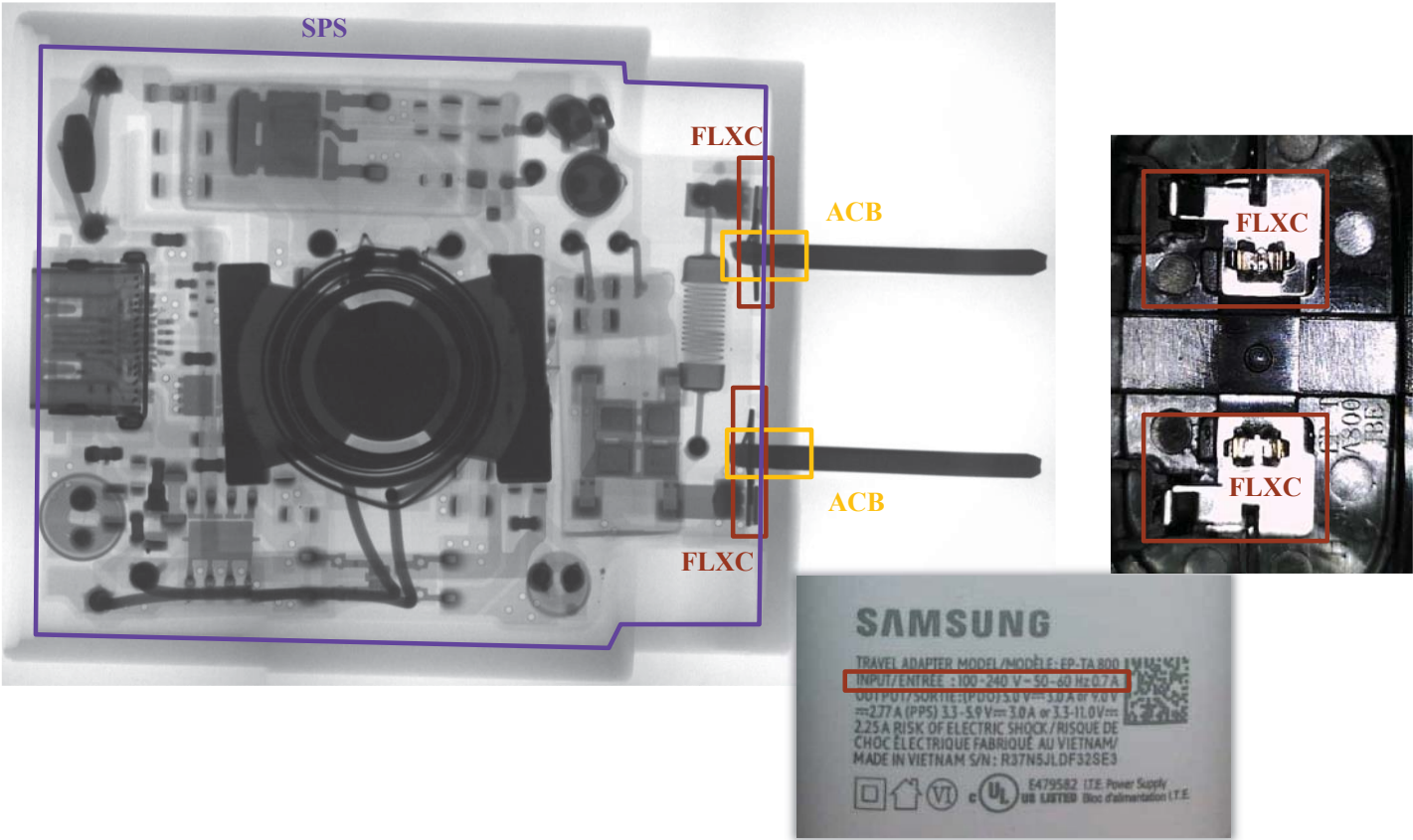


FLXC

Claim 54

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

The adapter of claim 43, wherein the **(FLXC) flexible contact is configured to electrically couple an AC power source** from the **(ACB) ac power blades** to the **(SPS) power converter circuit**.



Claim 60

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA800

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

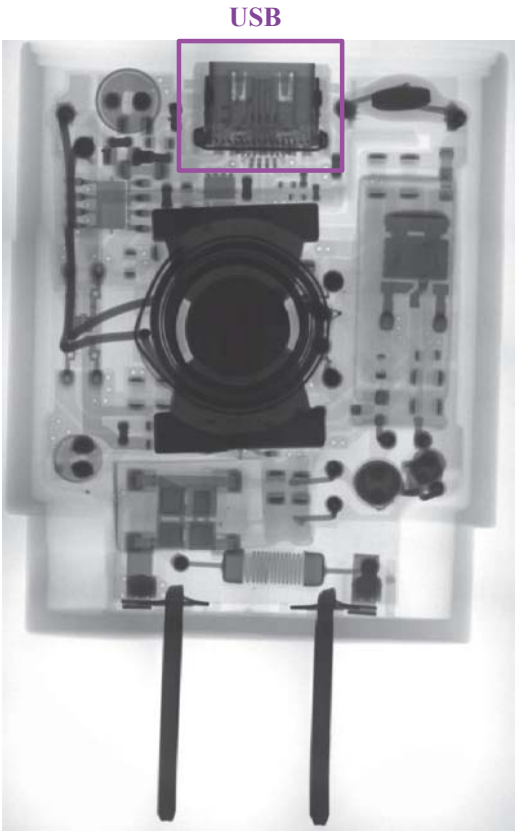


Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

Claim 43

A **(PC) power supply adapter** comprising:

a **(SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit** including,

a **(RECT) rectifier coupled with (ACB) ac power blades;**

a **(REG) regulator circuit coupled with the (RECT) rectifier;**

a **(XFM) transformer coupled with the (REG) regulator circuit,**

the **(XFM) transformer including a (XP) primary and a (XS) secondary,**

the **(XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and**

a **(FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and (FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.**

Claim 53

The adapter of claim 43, wherein the **(FLXC) flexible contact comprises a metallic conductor.**

Claim 54

The adapter of claim 43, wherein the **(FLXC) flexible contact is configured to electrically couple an AC power source** from the **(ACB) ac power blades** to the **(SPS) power converter circuit.**

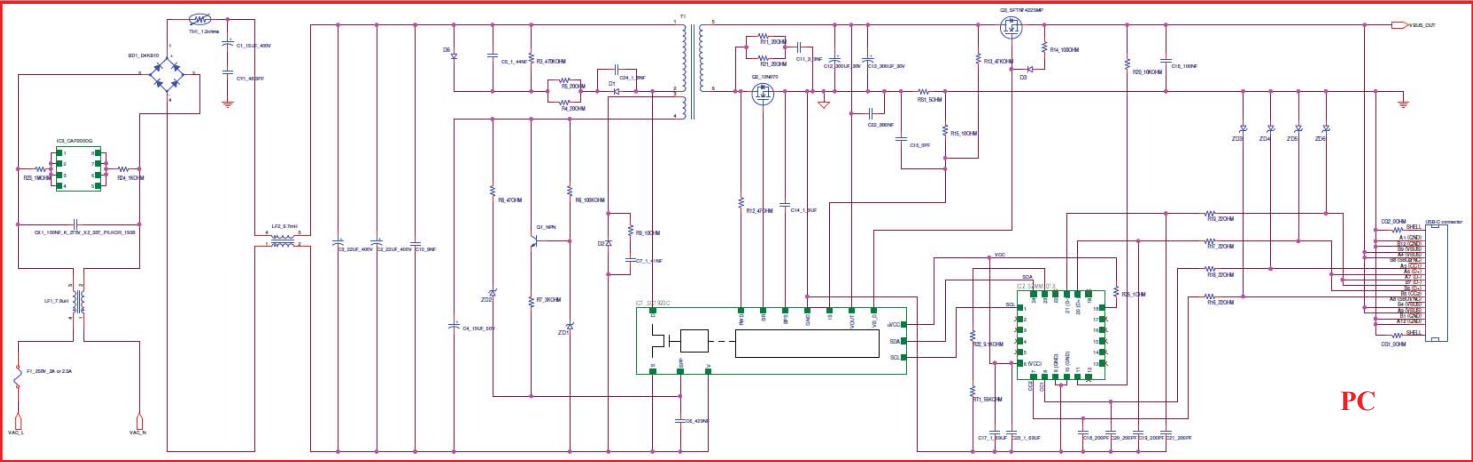
Claim 60

The adapter of claim 43, wherein the **(USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.**

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

A (PC) power supply adapter comprising:

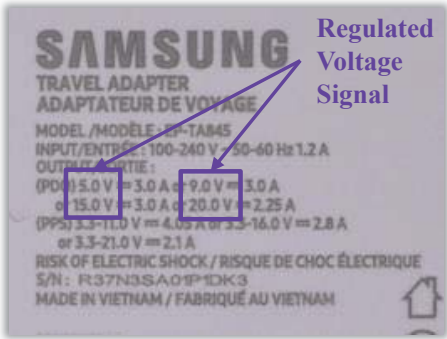
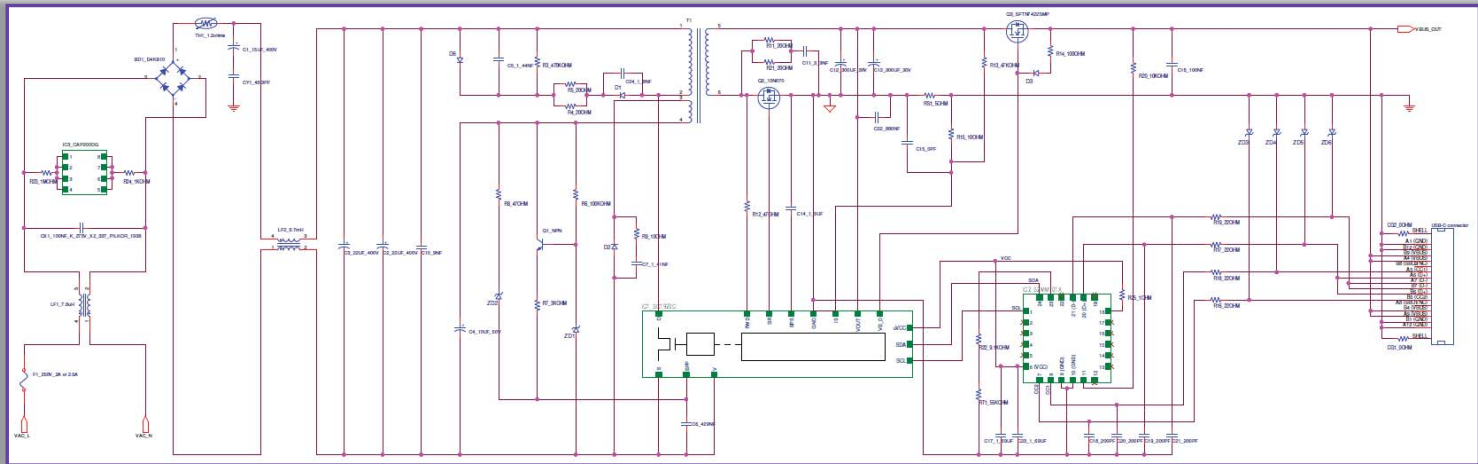


Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

a (SPS) power converter circuit configured to generate a regulated voltage signal, the power converter circuit including,

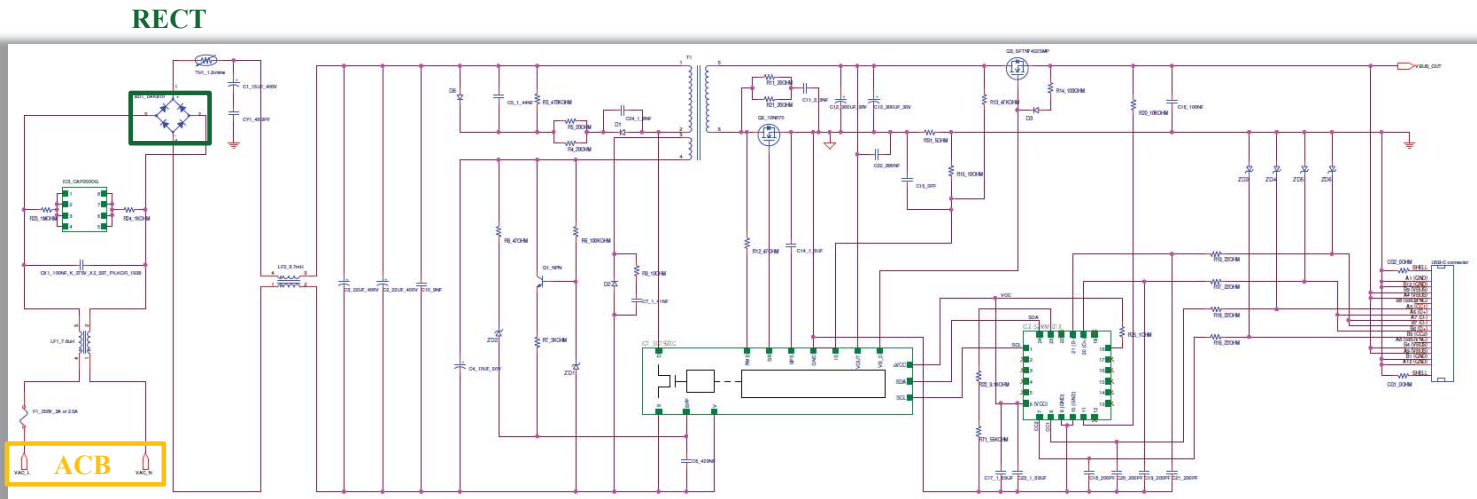
SPS



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

a (RECT) rectifier coupled with (ACB) ac power blades;

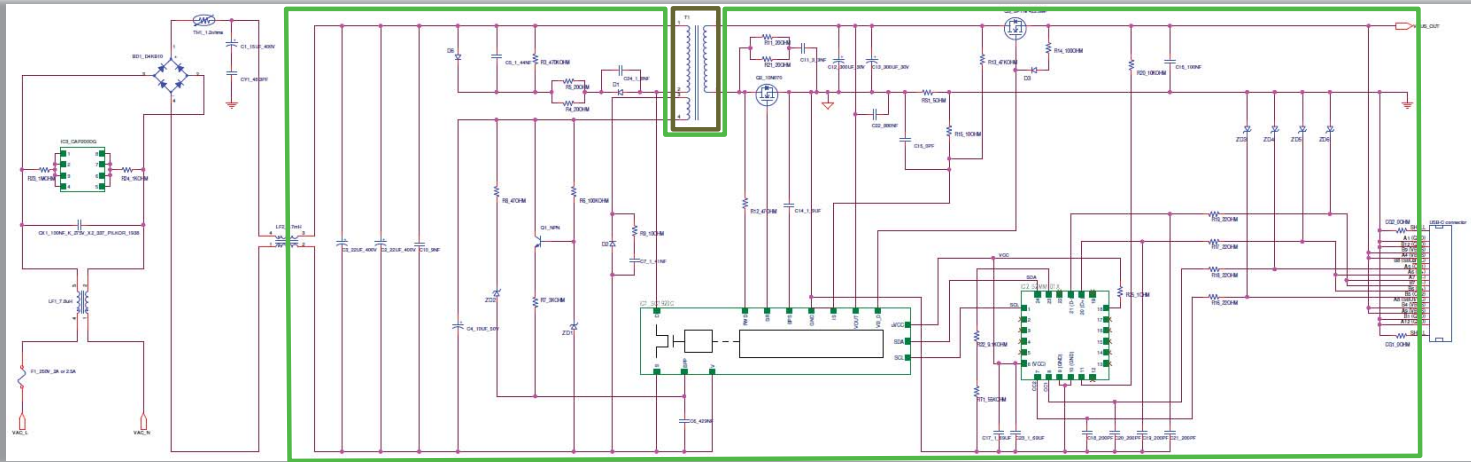


Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

a (XFM) transformer coupled with the (REG) regulator circuit,

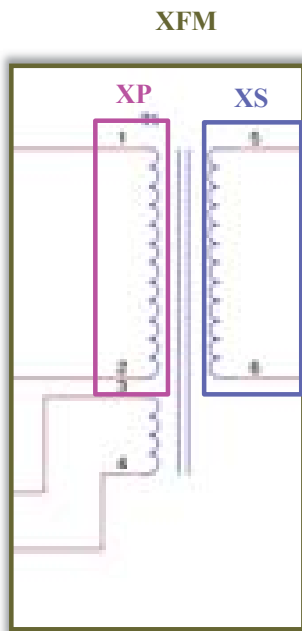
XFM REG



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

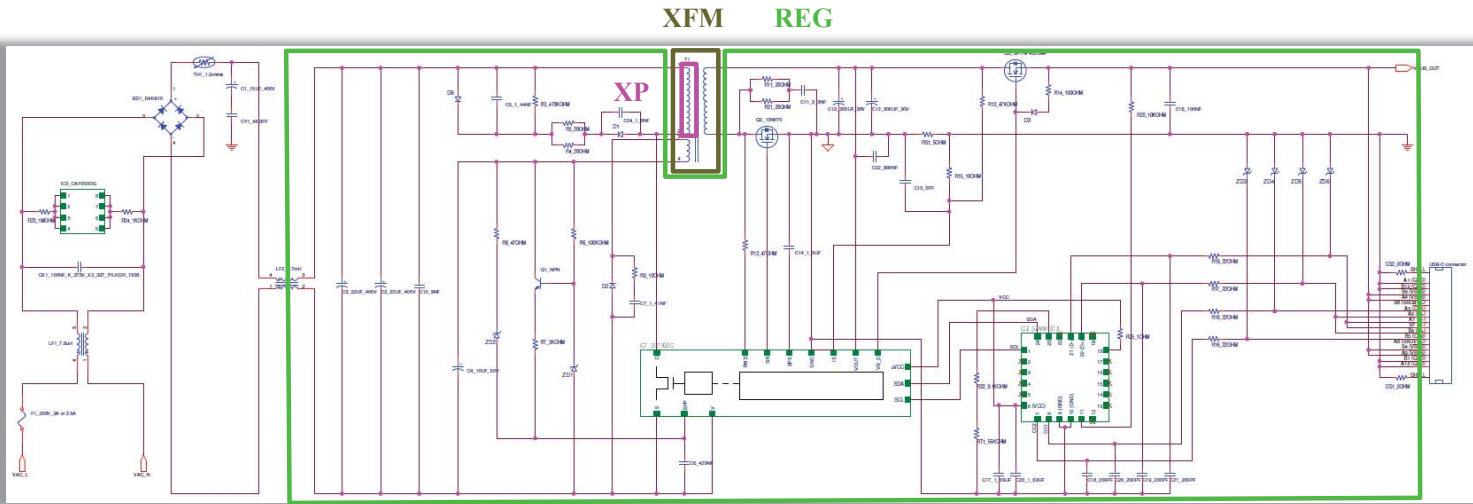
the (XFM) transformer including a (XP) primary and a (XS) secondary,



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

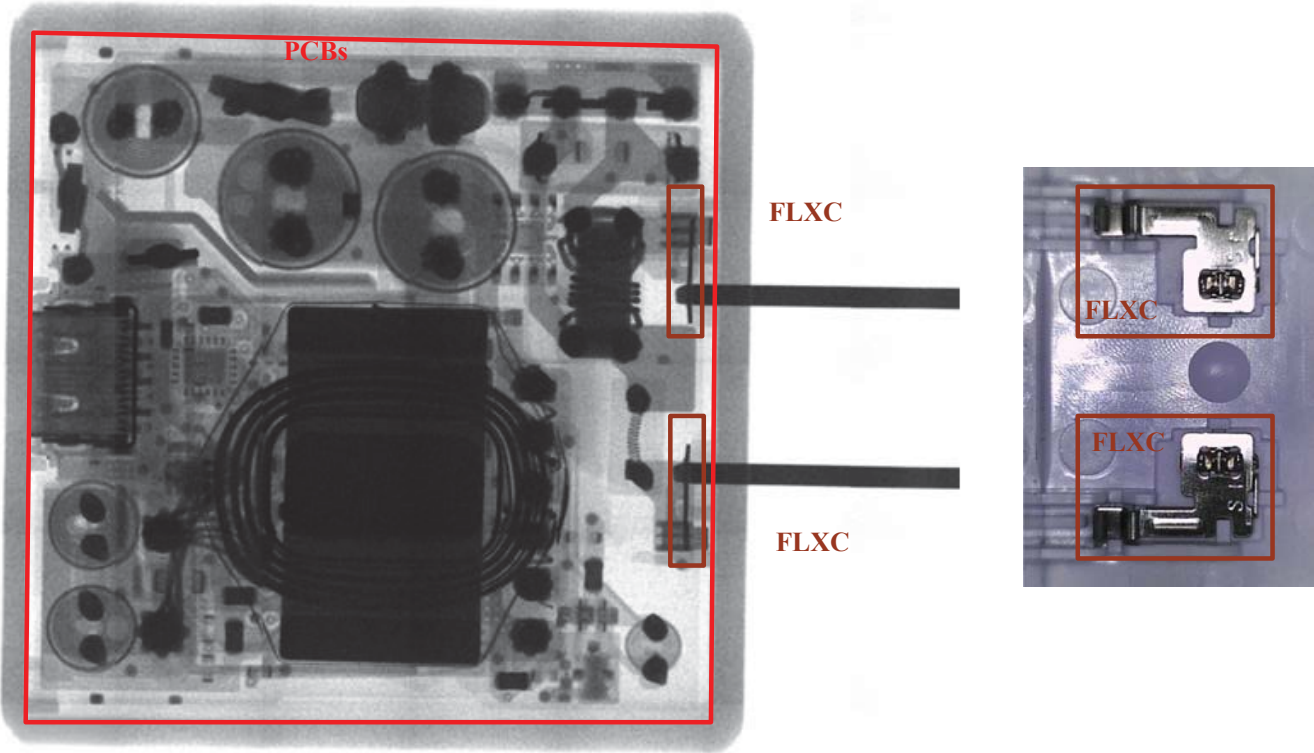
the (XFM) transformer being coupled with the (REG) regulator circuit via the (XP) primary; and



Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

a (FLXC) flexible contact coupled with each of a (PCBs) first and a second printed circuit board and

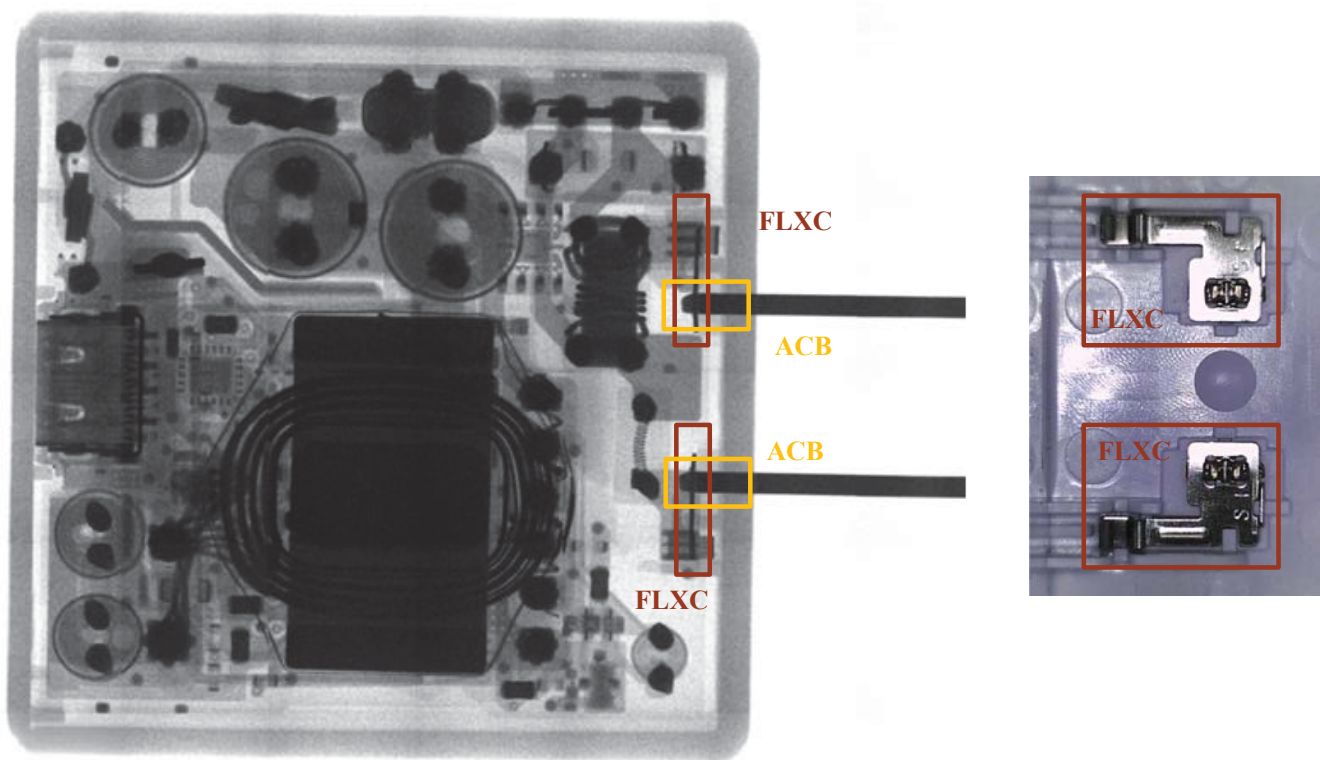


Potentially, literally and equivalently present.

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

(FLXC) flexibly biased to couple with a proximate end of the (ACB) ac power blades.

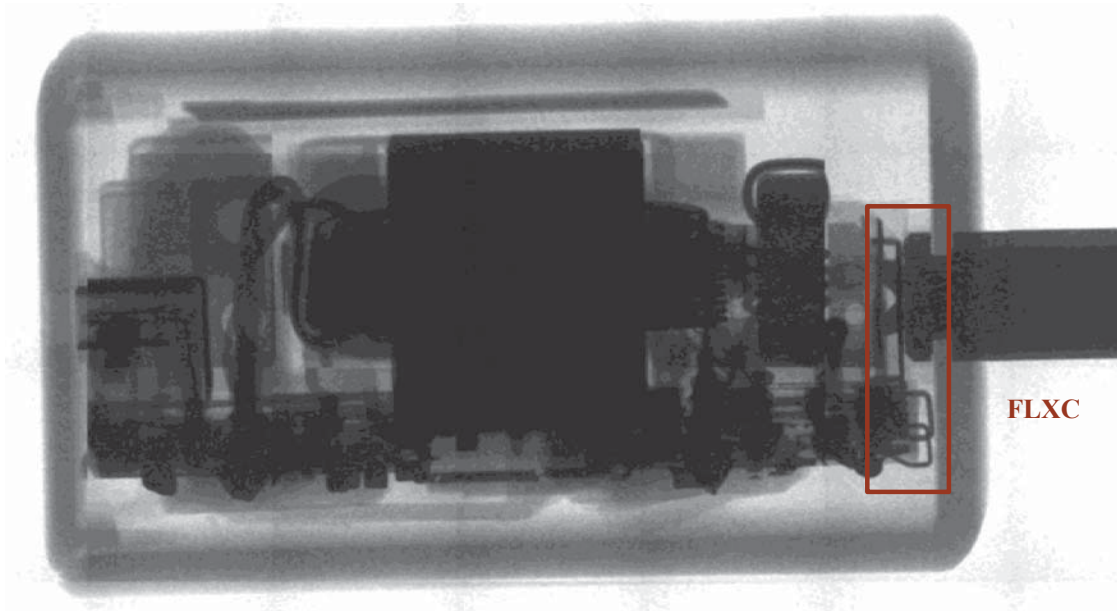


Preliminary – Subject to Change

Claim 43

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

(FLXC) flexibly biased to couple with a proximate end of the ac power blades.

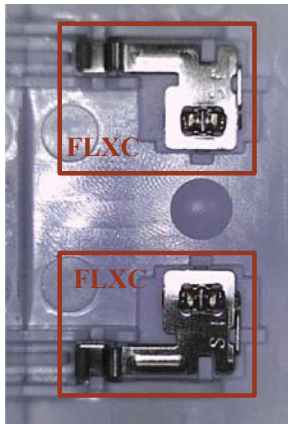


Preliminary – Subject to Change

Claim 53

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

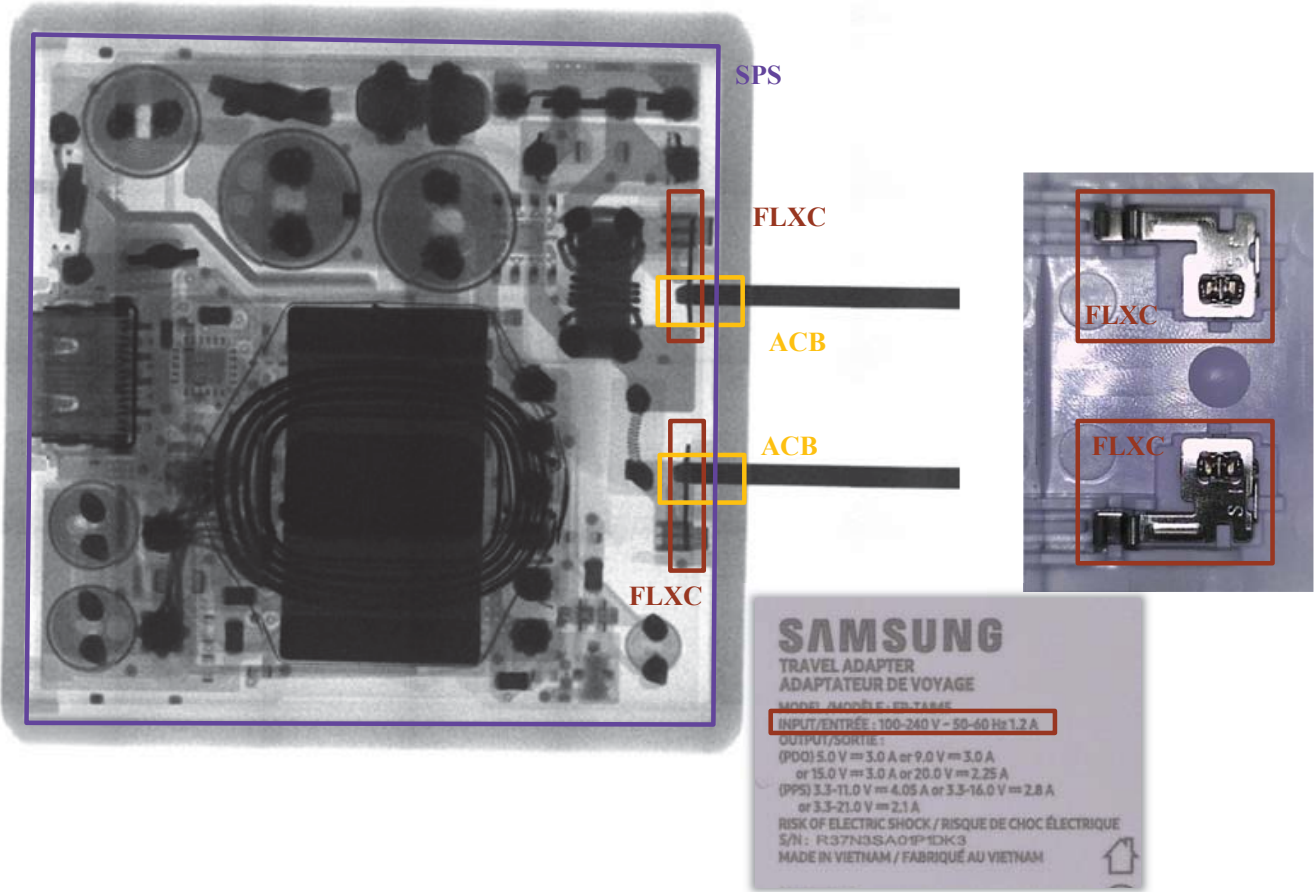
The adapter of claim 43, wherein the **(FLXC) flexible contact comprises a metallic conductor.**



Claim 54

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

The adapter of claim 43, wherein the **(FLXC) flexible contact is configured to electrically couple an AC power source** from the **(ACB) ac power blades** to the **(SPS) power converter circuit**.



Claim 60

Exhibit G - U.S. Patent No. 7,978,489 – Samsung EP-TA845

The adapter of claim 43, wherein the (USB) connector receptacle comprises a universal serial bus (USB) connector receptacle.

